

Notice of Allowability

Application No.

09/992,252

Examiner

Anthony Sol

Applicant(s)

KHALIL ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to RCE filed 9/24/2007.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/24/2007 has been entered.

Allowable Subject Matter

2. Claims 1-20 are allowed.
3. The following is an examiner's statement of reasons for allowance:

Regarding claim 1,

The prior art of record does not teach or fairly suggest a processor for receiving a plurality of associated link-layer addresses, each of the link-layer addresses designating a physical link-layer connection related to one of a plurality of nodes in a home network, the node being adapted to communicate with a foreign network having a plurality of associated link-layer addresses, each of the link-layer addresses designating a physical link-layer connection between one of a plurality of mobile nodes and the foreign network, and being further adapted to communicate using an information packet that can comprise any one of a plurality of message types to update a data table entry on a plurality of nodes, the information packet including a generalized link-layer address

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extension that has a type data field, a length data field indicating the length of the link-layer address data field and a sub-type data field, the sub-type data field designating the link-layer address protocol used on the foreign network, and a link-layer address data field designating the link-layer address of the physical link-layer connection to at least one mobile node associated with the home network.

Regarding claim 9,

The prior art of record does not teach or fairly suggest connecting a mobile node identified using an address associated with a home network to the first communication network through the physical connectivity designated by a link-layer address extension to an address associated with the network of the physical connectivity, and transmitting a first information packet on the first communication network, wherein the first information packet can comprise any one of a plurality of message types received at a plurality of nodes to update data table entries associated with the mobile node, and supporting a generalized extension containing the link-layer address, a sub-type data field identifier that specifies the link-layer addressing used on the first communication network, and a type data field designation identifying the extension as a link-layer address extension containing the link-layer address for the physical connectivity of the mobile node to the first communication network used for routing information packets to the physical connectivity.

Regarding claim 17,

The prior art of record does not teach or fairly suggest a node being adapted to receive an information packet having a generalized link-layer address extension to a network address for routing information packets, the link-layer address extension includes a type data field, a length data field, a sub-type data field indicating association with a specific node of a plurality of nodes on the network, and a link-layer address data field, wherein the link-layer address data field provides the link-layer routing address information used to route information packets to the physical connectivity of the mobile node to the communication network, and the information packet can comprise any one of a plurality of message types exchanged between a plurality of nodes, and each the information packet supports an extension data format used to update stored information on the plurality of nodes with routing address information for a physical connectivity for at least one specified node.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony Sol whose telephone number is (571) 272-5949. The examiner can normally be reached on M-F 7:30am - 4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing Chan can be reached on (571) 272-7493. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


WING CHAN
SUPERVISORY PATENT EXAMINER

AMS

9/28/2007